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NGA review(s) completed.

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3,4,5

SUBJECT: CAMERA INFORMATION FOR MISSION 1040-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A.

MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.627	609.602	FWD 54.940	FWD 55.000
			AFT 55.000	AFT 54.900
FILTER (WRATTEN NBR)	23A	21	25	25
APERTURE	F3.5	F3.5	F6.3	F8.0
SLIT WIDTH (IN)	.225	.175		
EXPOSURE (SEC)	1/100	1/100		
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	190	201	NA	NA

B.

S/I UNITS	STELLAR	INDEX
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FOCAL LENGTH (MM)	PART 1	83.9493	38.3171
	PART 2	84.1032	38.3333
FILTER (WRATTEN NBR)		NONE	21
APERTURE		F1.8	F4.5
EXPOSURE (SEC)		1.0	1/500
FILM		3401	3400
RESOLUTION (L/MM)	PART 1		73
	PART 2		72
UNIT NUMBER	PART 1	D78/95/96	
	PART 2	D92/79/110	

3. LENS DISTORTION (PIN CUSHION) MM

A.

MAIN UNITS	3	2	1	Ø	359	358	357
FWD UNIT	.ØØ2	.ØØ1	.Ø	.Ø	.ØØ2	.ØØ3	.ØØ5
AFT UNIT	.ØØ2	.Ø	.Ø	.Ø	.ØØ1	.ØØ2	.ØØ4

B.

HORIZON CAMERA (MM)	FWD		AFT	
	PORT	STAR	PORT	STAR
(RADIAL) 1Ø DEGREES.	.Ø1Ø	.Ø1Ø	.Ø2Ø	.Ø1Ø
2Ø DEGREES	.Ø3Ø	.Ø4Ø	.Ø7Ø	.Ø4Ø
(TANGENTIAL) MAX VECTOR	.Ø3Ø	.Ø2Ø	.Ø1Ø	.Ø25

4. CAMERA ANGLES

		DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS		29	41.26
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR	15	32.9
	FWD PORT	15	20.5

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	AFT STAR	14	16.2
	AFT PORT	14	25.0
C. ANGLE BETWEEN STELLLAR AND	PART 1	90	3.4
INDEX CAMERAS	PART 2	90	9.2

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

REF LEVEL		AMPL LEVEL		
NO.	CPS. GAV.	NO.	CPS. GAV.	PASSES
6	.3493 .0316	5	.0874 .0079	1 THRU 71

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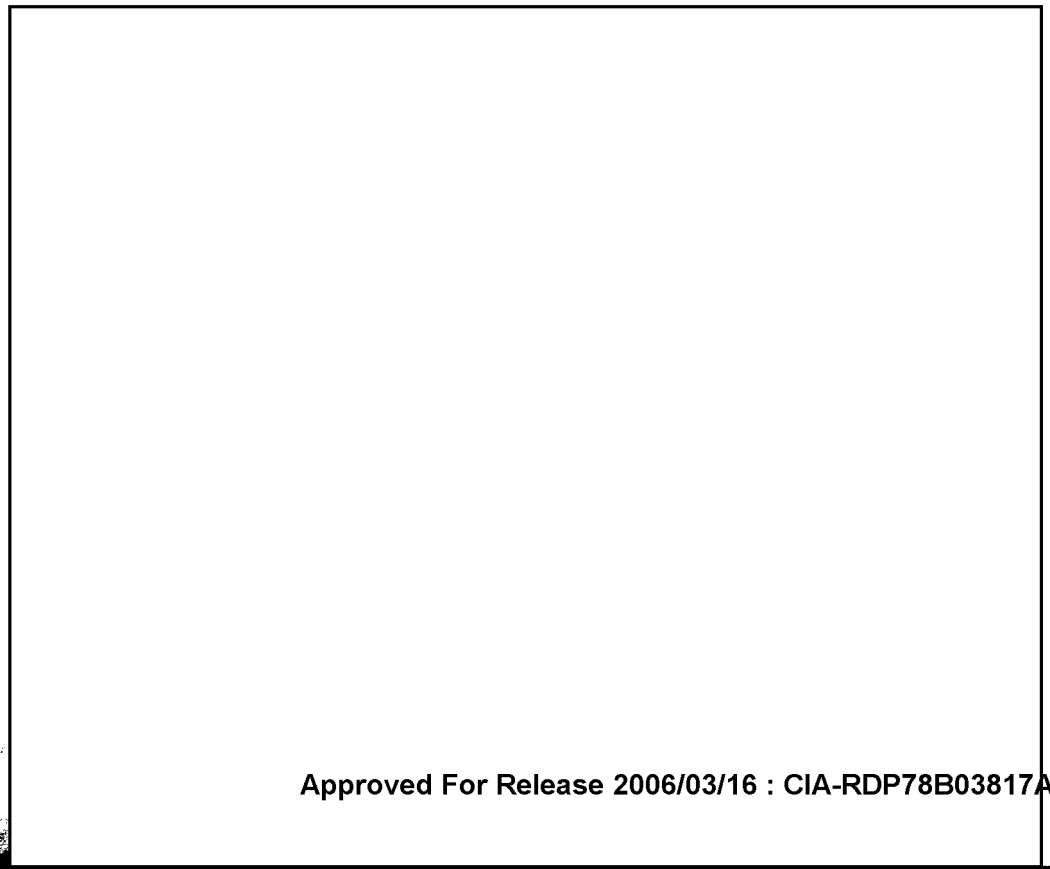
7. PROGRAM TIME DATA



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NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

NOTE: PHOTOGRAPHIC VEHICLE FLEW "NOSE-FIRST" RATHER THAN "TAIL-FIRST" AS IN MOST MISSIONS. AS A RESULT, STELLAR CAMERA AIMS WEST RATHER THAN EAST ON DESCENDING PASSES. ALSO, THE MASTER CAMERA IS THE AFT LOOKING CAMERA.

GP-1

T O P S E C R E T

--END OF MESSAGE--

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S/C NOTE: [redacted]

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